marantz®

Model SD-62 User Guide

Stereo Cassette Deck

ENGLISH

WARRANTY

For warranty information, contact your local Marantz distributor.

RETAIN YOUR PURCHASE RECEIPT

Your purchase receipt is your permanent record of a valuable purchase. It should be kept in a safe place to be referred to as necessary for insurance purposes or when corresponding with Marantz.

IMPORTANT

When seeking warranty service, it is the responsibility of the consumer to establish proof and date of purchase. Your purchase receipt or invoice is adequate for such proof.

FOR U.K. ONLY

This undertaking is in addition to a consumer's statutory rights and does not affect those rights in any way.

FRANÇAIS

GARANTIE

Pour des informations sur la garantie, contacter le distributeur local Marantz.

CONSERVER L'ATTESTATION D'ACHAT

L'attestation d'achat est la preuve permanente d'un achat de valeur. La conserver en lieur sur pour s'y reporter aux fins d'obtention d'une couverture d'assurance ou dans le cadre de correspondances avec Marantz.

IMPORTANT

Pour l'obtention d'un service couvert par la garantie, il incombe au client d'établir la preuve de lachat et d'en corroborer la date. Le reçu ou la facture constituent des preuves suffisantes.

DEUTSCH

GARANTIE

Bei Garantiefragen wenden Sie sich bitte an Ihren Marantz-Händler.

HEBEN SIE IHRE QUITTUNG GUT AUF

Die Quittung dient Ihnen als bleibende Unterlage für Ihren wertvollen Einkauf Das Aufbewahren der Quittung ist wichtig, da die darin enthaltenen Angaben für Versicherungszwecke oder bei Korrespondenz mit Marantz angeführt werden müssen.

WICHTIG!

Bei Garantiefrangen muß der Kunde eine Kaufunterlage mit Kaufdatum vorlegen. Ihre Quittung oder Rechnung ist als Unterlage ausreichend.

NEDERLANDS

GARANTIE

Voor inlichtingen omtrent garantie dient u zich tot uw plaatselijke Marantz handelaar te wenden.

UW KWITANTIE, KASSABON E.D. BEWAREN

Uw Kwitantie, kassabon e.d. vormen uw bewijs van aankoop van een waardevol artikel en dienen op een veilige plaats bewaard te worden voor evt, verwijzing bijv, in verband met verzekering of bij correspondentie met Marantz.

BELANGRIJK

Bij een evt, beroep op de garantie is het de verantwoordelijkheid van de consument een gedateerd bewijs van aankoop te tonen. Uw kassabon of factuur zijn voldoende bewijs.

ITALIANO

CONDIZIONI DI GARANZIA

L'apparecchio e' garantito per 365 giorni dalla data di acquisto comprovata da un documento attestante il nominativo del rivenditore e la data di vendita. La garanzia sara' prestata con la sostituzione o riparazione gratuita delle parti difettose.

Non sono coperti da garanzia difetti derivanti da uso improprio, errata installazione, manutenzione effettuata da personale non autorizzato o, comunque, da circostanze che non possano riferirsi a difetti di funzionamento dell'apparecchio.
Sono inoltre esclusi dalla garanzia gli interventi inerenti l'installazione e l'allacciamento agli impianti di alimentazione.

Gli apparecchi verranno riparati presso i nostri Centri di Assistenza. Le spese ed i rischi di trasporto sono a carico del cliente.

La casa costruttrice declina ogni responsabilita' per danni diretti o indiretti provocati dalla inosservanza delle prescrizioni di installazione, uso e manutenzione dettagliate nel presente manuale.

Per informazioni sull'abbonamento al Servizio Assistenza postgaranzia e per conoscere l'indirizzo dei Centri Assistenza Marantz rivolgetevi al nostro servizio consumatori (telefono 1678-20026 – numero verde).

PORTUGUÊS

GARANTIA

Para informações sobre a garantia, contactar o distribuidor Marantz local.

GUARDAR O RECIBO DE COMPRA

O recibo é o registo permanente da compra que fez. Deve ser guardado num local seguro, para ser apresentado em questões relacionadas com o seguro ou para quando tiver de contactar a Marantz.

IMPORTANTE

Quando procurar assisténcia técnica ao abrigo da garantia, é da responsabilidade do consumidor estabelecer a prova e data de compra. O recibo é prova adequada.

SVENSKA

GARANTI

För information om garantin, kontakta Marantz lokalagent.

SPAR KVITTOT

Kvittot är inköpsbevis på en värdefull vara. Det skall förvaras säkert och hänvisas till vid försäkringsfall eller vid korrespondens med Marantz.

VIKTIGT

För att garantin skall gälla är det kundens sak att framställa bevis och datum om köpet. Kvitto eller faktura är tillräokligt bevis för detta.

ESPAÑOL

GARANTIA

Para información sobre las Condiciones de Garantía, sírvase consultar el Certificado que encontará en le interior del embalaje del equipo.

CONSERVE EL COMPROBANTE DE LA COMPRA

La factura es el comprobante de la adquisición de un producto valioso. Consérvela en lugar seguro para poder consultarla en caso necesario.

IMPORTANTE

Para disponer de servicios cubiertos por la garantía, el usuario deberá acreditar la fecha y el lugar de adquisición del equipo. La factura o recibo de la compra constituyen un comprobante válido a tal efecto.

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ENGLISH:	This unit meets the requirements of EEC Recommendation 82/499.
FRANÇAIS:	Cet appareil est conforme aux directives 82/499 de la CEE.
DEUTSCH:	Dieses Gerät entspricht der EWG-Empfehlung 82/499.
NEDERLANDS:	Dit apparaat voldoet aan de eisen van Aanbeveling EEG 82/499.
ITALIANO:	Questo apparecchio è conforme ai requisiti della direttiva CEE 82/499.
PORTUGUÊS:	Esta unidade foi concebida e manufacturada em conformidade com a Recomendação 82/499 da Comunidade Económica Europeia.
SVENSKA:	Denna apparat överenstämmer med bestämmelserna i EEC 82/499.
ESPAÑOL:	Este equipo cumple las Directrices 82/499 de la C.E.E.

ENGLISH

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FOREWORD

This section must be read before any connection is made to the mains supply.

WARNINGS

Do not expose the equipment to rain or moisture.

Do not remove the cover from the equipment.

Do not push anything inside the equipment through the ventilation holes.

Do not handle the mains lead with wet hands.

EQUIPMENT MAINS WORKING SETTING

Your Marantz product has been prepared to comply with the household power and safety requirements that exist in your area.
"/02" Version product can be powered by 220V-230V AC.
"/05" or "/07" Version product can be powered by 240V AC.
On the rear panel of the "/01" Version product, a voltage selector (2-position or 4-position) is provided. Be sure to set the voltage selector to the mains voltage of your area before using the unit.

MAINS PLUG CONNECTIONS FOR EQUIPMENT SOLD IN THE U.K.

The wires in the mains lead are coloured in accordance with the following code:

- brown is the live wire
- blue is the neutral wire

Because the colours of these wires may not correspond with the terminal identification in your plug, proceed as follows. Connect the:

- brown wire to the terminal marked 'L' or coloured brown or red
- blue wire to the terminal marked 'N' or coloured blue or black.

When using a 13A plug conforming to BS1363, use a 3A fuse. For other plugs, use a 5A or lower rated fuse in the plug, adaptor or at the distribution board.

DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL IN THE PLUG WHICH IS MARKED BY THE LETTER E OR BY THE SAFETY EARTH SYMBOL OR COLOURED GREEN OR GREEN – AND - YELLOW.

COPYRIGHT

Recording and playback of any material may require user consent. For further information refer to the following:

- Copyright Act 1956
- Dramatic and Musical Performers Act 1958
- Performers Protection Acts 1963 and 1972
- any subsequent statutory enactments and orders.

ABOUT THIS USER GUIDE

Refer to the Figures on the pages 67 at the rear of this user guide. The callout numbers on the Figures correspond to those found in the text. All references to the connections and controls that are printed in **BOLD** type are as they appear on the unit.

PRECAUTIONS

The following precautions should be taken when operating the equipment.

GENERAL PRECAUTIONS

When siting the equipment ensure that:

- the ventilation holes are not covered
- air is allowed to circulate freely around the equipment
- it is on a vibration free surface
- it will not be exposed to interference from an external source
- it will not be exposed to excessive heat, cold, moisture or dust
- it will not be exposed to direct sunlight
- it will not be exposed to electrostatic discharges

In addition, never place heavy objects on the equipment.

If a foreign body or water does enter the equipment, contact your nearest dealer or service centre.

Do not pull out the plug by pulling on the mains lead, hold the plug.

It is advisable when leaving the house, or during a thunderstorm, to disconnect the equipment from the mains supply.

REAR PANEL CONNECTIONS

All connections to the rear panel should be made with the power to the entire system turned off. To avoid confusion, connect one cable at a time between the different components of your system. This is the safest way to avoid cross-connecting channels or confusing signal inputs with outputs.

(1) LINE OUTPUTS

Should be connected to the Tape input jacks of your amplifier.

(2) LINE INPUTS

Should be connected to the Tape output jacks of your amplifier.

(3) REMOTE CONTROL TERMINALS

For the system remote control operation, the **REMOTE CONT. IN** jack should be connected to the Remote control output jack of your amplifier and the **REMOTE CONT. OUT** jack to the Remote control input jack.
The following functions of this Marantz product can be remote-controlled when it is connected with a component incorporating the remote control eye:
Play, FF, REW, Pause, Stop Rec, Rec Mute, QMS (0 to 9 and Next, Previous), AMS, Counter (Mode, Memo)
However, the remote-controllable functions are dependent on the type of the remote commander used.
If this Marantz product to be remote-controlled by a Learning Remote Commander from Marantz, please refer to the Command Code Table of Figure 6 at the end of this manual.
The connections can be made using RCA-type pin-plug cords available in audio accessory stores.
Refer to page 78.

(4) AC POWER SOURCE CONNECTION

With the **POWER** switch set to the **OFF** position, plug the AC line cord into an AC outlet providing the proper voltage.

FRONT PANEL FEATURES

⑤ POWER SWITCH

Use this switch turn the unit on and off.

⑥ TIMER/SYNC. REC SWITCH

PLAY:
By using a commercially available audio timer, this function permits timer activated playback.

REC:
By using a commercially available audio timer, this function allows you to carry out unattended recording.

OFF:
When the audio timer is not in use, set to this position.

SYNC REC:
When this unit is connected with a marantz CD player equipped with the Synchro Recording function, synchronous recording with the start of CD player is made possible by connecting it to the REMOTE CONT. BUS jacks on the rear panel of this unit.

⑦ EJECT BUTTON

Press this button to open the cassette compartment.

⑧ CASSETTE COMPARTMENT

⑨ COUNTER OPERATION BUTTONS

MEMO:
This button is used to store the current tape location in memory. Storing the current tape location is useful when it is desired to listen to the current selections repeatedly. After pressing this button, play a selection. When play is completed, press the◄◄button to rewind or►►to fast-forward the tape. The tape is then rewound to the position stored in memory and stops. When the MEMO button is pressed several times the tape location at the time it is pressed last is stored in memory.

RESET:
Press this button to reset the counter reading to "0000" or play time to "00.00".

MODE:
To select the counter or time display, press this button. Each time this button is pressed, display changes between counter and time mode alternately.

⑩ DISPLAY

Ⓐ REC INDICATOR
Lights while the deck is in recording or rec pause mode.

Ⓑ REC LEVEL/OPERATION MODE DISPLAY
Displays the peak level from 0 to +12 dB in 1 dB step. When the level is over +12 dB, the display does not show the level but shows only "+dB". This display section also shows the variable operation modes according the button settings: STOP, PLAY, FF (fast forwarding), REW (fast rewinding), PAUS (pause), RECP (rec pause), RECm (rec mute), Ams (AMS play) or P-01 to P-15 (QMS operation).

Ⓒ TAPE/SOURCE INDICATORS
Either the TAPE or SOURCE indicator lights according to the TAPE/SOURCE selector setting.

Ⓓ HX PRO INDICATOR
Lights permanently while the power is ON.

Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

"DOLBY", the double-D symbol ⧈ and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

Ⓔ DOLBY B NR/DOLBY C NR INDICATOR
Lights according to the setting of the DOLBY NR switches.

Ⓕ MPX-F INDICATOR
Lights when the MPX-F button is pressed on.

Ⓖ TAPE TYPE INDICATORS
With the built-in auto tape selector, the recording bias, equalization and optimum recording level, and playback equalization are automatically set according to the type of cassette loaded.

NORMAL: For normal ferric oxide tapes.

CrO_2: For chromium dioxide and other tapes requiring 70 μS equalization and high bias.

METAL: For metal tapes.

- The METAL indicator is lit when no cassette tape is loaded.

Ⓗ PEAK LEVEL METERS
The left and right peak level displays accurately follow the strength of music signals. Set the REC LEVEL control so that the peak level meters do not travel over the optimum recording level indicator which appears as triangle indicator above the scale. Occasional flashes are acceptable, but if the signal is allowed to consistently illuminate the optimum recording level zone of the displays, audible distortion will occur.

Ⓘ BLANK SKIP INDICATOR
Lights when the BLANK SKIP button is pressed on.

Ⓙ MEMO INDICATOR
Lights when the MEMO button is pressed on.

Ⓚ COUNTER/TIME DISPLAY
Displays either tape counter reading or tape running time according to the COUNTER MODE button setting.

⑪ MAIN OPERATION BUTTONS

REC MUTE button:
Pressing this button while the deck is in the record mode causes a 4 second blank space to be recorded, after which the deck enters the rec pause mode.

REC button:
Pressing this button engages the rec pause mode, and lights the REC indicator. While in this mode, the peak level display will function, allowing you to monitor the recording level. To initiate recording from the rec pause mode, press the PLAY or PAUSE button.

◄◄ button:
Pressing this button fast-rewinds the tape.

II PAUSE button:
Pressing this button during playback or recording stops the tape deck without clearing the mode setting, and pressing it again causes playback or recording to be resumed.

►► button:
Pressing this button fast-forwards the tape.

PLAY section:
Pressing this button starts playback or recording.

STOP section:
Pressing this button clears all mode settings and stops the tape deck.

CAUTION:
1. Operate the main operation buttons only after completely closing the cassette compartment.
2. Press the EJECT button and STOP section simultaneously in order not to open the cassette compartment.
3. If any of the above operations do not operate correctly, turn the POWER switch OFF and then turn it ON again.

⑫ MPX FILTER SWITCH

To record FM broadcasts with Dolby NR, press this switch so that the MPX-F indicator lights.

⑬ DOLBY NR SWITCHES

When recording using Dolby Noise Reduction or playing a tape recorded using Dolby Noise Reduction, set the **NR** switch to ON and select the B or C NR setting. The corresponding **DOLBY-B** or **DOLBY-C** indicator lights. Dolby noise reduction is an extremely effective method of reducing undesirable background hiss on tapes. This unit incorporates both Dolby B NR and the newer Dolby C NR systems. Dolby C NR is approximately twice as effective as Dolby B NR on a dB basis.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol ⧈ are trademarks of Dolby Laboratories Licensing Corporation.

⑭ RECORD LEVEL CONTROL

To increase the recording levels, turn the knob clockwise.

⑮ SOURCE/TAPE switch

When recording or adjusting the recording level, press this switch so that the **SOURCE** indicator lights. When adjusting the recording level, the sound to be recorded can be monitored. During recording, the source sound can be monitored with the switch in the **SOURCE** position and the just recorded sound can be monitored with the switch in the **TAPE** position. During playback, this switch is automatically set to the **TAPE** position to allow listening to the tape sound and the **TAPE** indicator lights.

⑯ RECORD BALANCE CONTROL

Used to balance the right and left channels of the recording sound.

⑰ BIAS CONTROL

Adjust this control so that the optimum amount of bias obtained and resulting in the flat frequency response according to the characteristics of the tape to be used. (Record a high frequency sound or the interstation noise of FM broadcast and then play back. Repeat this procedure with the different settings of the **BIAS** control until the recorded sound can be played back as close as possible to the original.)

⑱ BLANK SKIP BUTTON

When this button is pressed during playback, the tape will be automatically advanced to the beginning of the next selection when an unrecorded tape section of more than 10 seconds is present.

⑲ AMS (AUTO MUSIC SCAN) BUTTON

When this button is pressed, the beginning of each selection is played back for about 10 seconds. Once the desired selection is found, press the **PLAY** button. The deck will enter normal play mode. When the Auto Music Scan function is activated, "AMS" is displayed.

⑳ QMS (QUICK MUSIC SEARCH) BUTTON

Used to select the selection number for the Quick Music Search function.

㉑ M (memory) CALL BUTTON

The peak recording level is automatically stored in the memory of this cassette deck. The peak level of the last recording can be recalled and the peak level flashes for about 5 seconds by pressing this button.

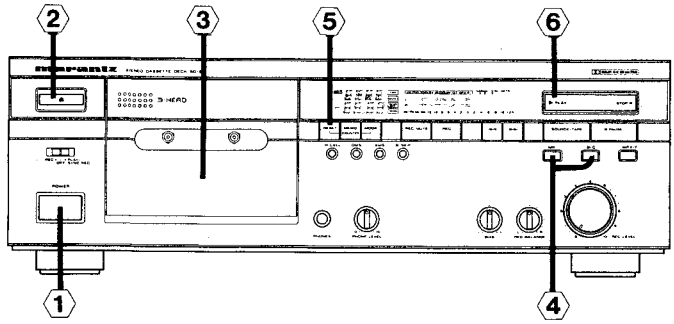
㉒ PHONES LEVEL control

Used to adjust the volume level of the headphones plugged in the **PHONES** jack. To increase the volume level, turn this control clockwise. To decrease the volume level, turn it counterclockwise.

㉓ PHONES JACK

Accepts headphones (optional) utilizing a standard stereo phone plug.

PLAYBACK



① Press the **POWER** switch to ON.

② Press the **EJECT** button to open the cassette compartment.

③ Load a cassette tape and close the cassette compartment.

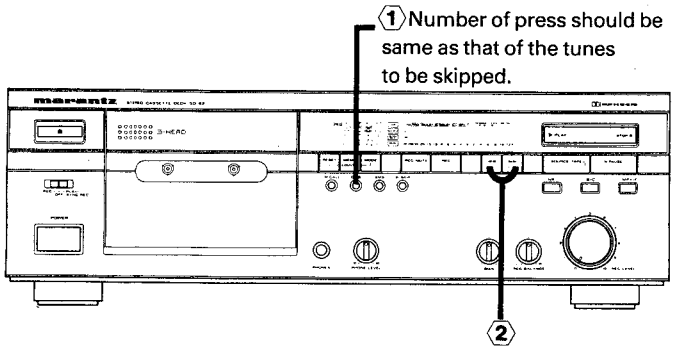
④ When the tape has been recorded using Dolby NR, select the same Dolby NR setting as was used in recording.

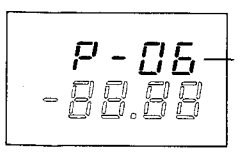
⑤ Select the counter mode with the **COUNTER MODE** button and reset the counter reading with the **COUNTER RESET** button.

⑥ Press the PLAY button.

Quick music search

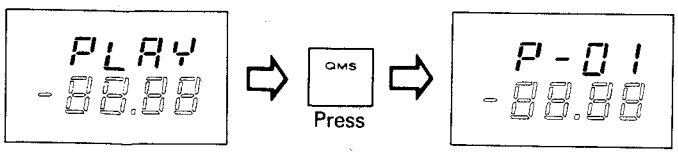
With the quick music search function, a selection located up to 15 selections after or before that which you are now listening to or stopped at can be played back.



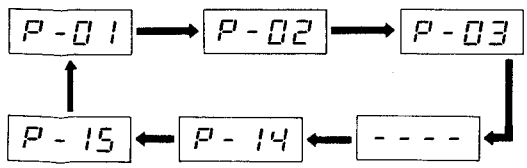


Displays the number of tunes to be skipped.

① Any time when the **QMS** button is pressed, the display shows the number of the tunes to be skipped.



Number of the **QMS** button pression is displayed up to 15. If the **QMS** button is pressed more than 15 times, the display returns to 1.

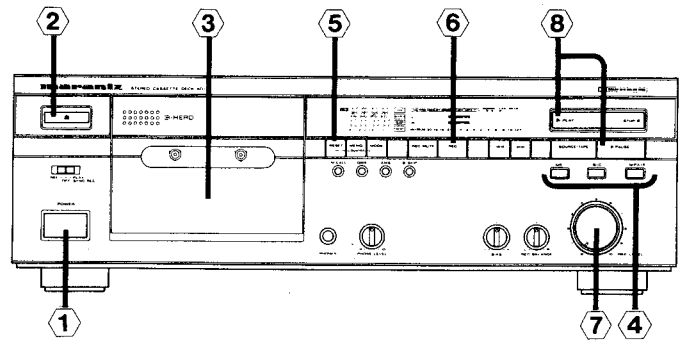


Wnen the QMS function is released, the previous display is resumed.

② Press the ◄◄ on ►► button.
When the beginning of the desired musical number is searched, the unit enters the Play mode.

Auto Pause function
When the ❚❚ (Pause) button is pressed during QMS search operation, rewinding for Programmed Playback or search for Single Repeat Playback, the deck enters the Play-Pause mode at the beginning of the searched musical number.
Press the ❚❚ (Pause) button again to enter the Play mode.

RECORDING



① Press the **POWER** switch to ON.

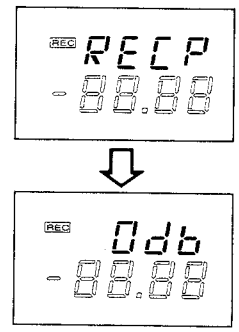
② Press the **EJECT** button to open the cassette compartment.

③ Load a cassette tape and close the cassette compartment.

④ Select the Dolby NR system if necessary.
* When recording an FM broadcast with Dolby NR, press the MPX-F button.

⑤ Select the counter mode with the **COUNTER MODE** button and reset the counter with the **COUNTER RESET** button.

⑥ Press the **REC** button.
The unit enters the REC PAUSE mode.
"RECP" is displayed for about 2 seconds, then "0 dB" is displayed.



Displayed for about 2 seconds.

⑦ Adjsut the **REC LEVEL** control so that the red portion of the peak level meter sometimes lights up.

⑧ Press the **PAUSE** or **PLAY** button to start recording.

Quick rewind

When the◄◄button is pressed without pressing the **STOP** button during recording, the tape returns to the position where the recording was started, and the deck enters the **STOP** mode.

Auto rec muting

For eliminating commercials or narration during FM broadcast recording or for leaving spaces between selections during tape dubbing, a non-recorded blank of about 4 seconds can be left by one-touch operation, after which the deck enters the rec pause mode.

SYNCHRO RECORDING

The Synchro Recording is possible only when this unit is connected with a Marantz CD player equipped with the Synchro Recording function.
The Synchro Recording is enabled through the connection of the **REMOTE CONT. BUS** jacks (rear panel). (See Figure 7)

1. Insert a tape to be recorded.
2. Set the deck to the Record-Pause mode.
3. Set the **TIMER/SYNC. REC** switch to SYNC REC.
4. Press the play button of the CD player.
   The tape recording will start at the same time. It stops at the same time as when the CD player stops playback.
   Synchro Recording with the CD player does not occur if the **TIMER/SYNC. REC** switch is OFF.

RECORDING/PLAYBACK WITH TIMER

For connections for Unattended Timer Recording and Timer Playback, refer to the instructions attached to an audio timer.

Notes on timer recording/playback

- Some audio timers available in market are turned off automatically in 59 minutes after their power is turned on. For details, read carefully the instruction manual supplied with your audio timer.

- If the **POWER** switch is pressed to ON with the **TIMER/SYNC. REC** left to REC though Timer Recording is not required, the deck will enter the Record mode from the start. To prevent this, be sure to set the **TIMER/SYNC. REC** switch to OFF when Timer Recording is not required.

Timer Recording

By attacning an audio timer to this unit, radio broadcasts can be recorded while you are absent or sleeping.

1. Set the audio timer to the ON position, and set the **TIMER/ SYNC. REC** switch of this unit to OFF (center position).
2. Set the power of your stereo system to ON, and tune the tuner into the radio station to be recorded.
3. Set the **POWER** switch to ON, and insert the cassette to be recorded in the cassette holder.
   Press the **REC** button to enter the Record-Pause mode. Then adjust the recording level by turning the **REC LEVEL** control so that the red segments of the level meter lights up only at times.
   After the level setting, enter the Stop mode.
   Set the **TIMER/SYNC. REC** switch to REC.
   Set the audio timer to the AUTO position, and set the start time and stop time.
   When the start time set above comes, the powers of all required components are turned on and recording starts. When the tape has been wound to the end, the tape travel is stopped by the auto shut-off function, then the powers of this unit and the stereo system is turned off by the timer.

Timer Playback

1. Set the audio timer to the ON position, and set the **TIMER/ SYNC. REC** switch of this unit to OFF (center position).
2. Insert the cassette to be played in the cassette holder.
3. Set the power of your stereo system to ON, and adjust the playback level of the tape to be played.
4. Set the **TIMER/SYNC. REC** switch to PLAY.
5. Set the audio timer to the AUTO position, and set the start time and stop time.
6. When the start time set above comes, the powers of all required components are turned on and playback starts. When the tape has been wound to the end, the tape travel is stopped by the total shut-off function, then the powers of this unit and the stereo system is turned off by the timer.

NOISE REDUCTION SYSTEMS

DOLBY B AND DOLBY C NOISE REDUCTION SYSTEM

DOLBY B NR

The Dolby B Noise Reduction system increases the level of the low volume mid and high frequency signals during recording and reduces the level of these signals by an identical amount during playback. As a result the playback signal is identical to the original source signal but the level of tape hiss is reduced.

DOLBY C NR

The Dolby C Noise Reduction system is similar to the B type. In the C system, however, as the range to be the increased and decreased during recording and playback are considerably extended, the level of tape hiss reduced.

DOLBY HX PRO HEADROOM EXTENSION

The Dolby HX PRO system monitors the total amount of effective bias during recording, and instantaneously compensates for any excess bias by reducing the deck's bis signal level accordingly. The system operates independently on each channel. HX PRO is not a noise reduction system because it functions only during recording and no decoding is required. Therefore, a tape recorded with the HX PRO system can be played back on any other cassette deck while retaining the benefits of **HX PRO**.

PROPER RECORDING LEVEL

One of the beauties of music is its dynamic range, in other words, the contrast between very soft and very loud passages. To capture this contrast on tape requires that the recording levels be set so that the loudest passages do not saturate the tape and cause distortion. Yet the recording levels should not be set too low or the soft passages would simply disappear in the residual noise.

If for example, you are recording from a record, you should at the outset find the loudest section of the record. Insert a cassette in your tape deck and press the **REC** buttons. You can thus adjust the recording level without actually recording on the tape.

Start the record over at the beginning and depress the **PLAY** or **PAUSE** button to commence recording. If after setting the recording levels as explained above the record begins with a soft musical passage, set the levels too low.

Do not give into the temptation of changing them. Keep in mind that the level readings, when placed in proper perspective with actual relative loudness levels will fall into the following areas:

Broad cast human voice:	from −10 dB to −5 dB
Loud music (fortissimo):	Approximately +1 dB
Soft music (pianissimo):	Approximately −15 dB
Average music level:	from −10 dB to −5 dB

TO CLEAN HEADS

The record/play and erase heads are the most important parts of the cassette deck. As the tape rubs against the heads during record and playback brown oxide deposits from the tape accumulate on the heads, guide and pinch roller. Even the best cassette tapes will shed some particles of oxide. The accumulation of this oxide will cause loss of high frequency response, loss of sound volume, intermittent sound dropout and unsatisfactory result when recording or erasing the heads. If the oxide is allowed to build up, it may cause the heads to wear out prematurely, causing permanent damage.

Open the cassette compartment by pressing the **EJECT** button. Clean the heads using a cotton stick as shown in Figure 2.

To clean the tape path, use cotton swabs and methylated sprit (available at any pharmacy). Please note that common "rubbing alcohol" should not be used because of its water content.

Dip the cotton swab in the alcohol and clean the tape heads, capstan, guides, pinch roller until no more oxide can be picked up. If you can see a stripe of brown oxide around the perimeter of the pinch roller, it is time to clean the entire tape path.

AUTO TAPE SELECTOR

This unit is equipped with auto tape selector which automatically sets the bias and equalizer level using the detection holes provided in the cassette shell. The bias and equalizer level is automatically set according to the type of cassette as follows. (See Figure 3.)

- Normal tapes: EQ; 120μS, Bias; Low
- CrO_2 tapes: EQ; 70μS, Bias; High
- Metal tapes: EQ; 70μS, Bias; Metal

In some metal cassette, the metal detection holes are not provided. With these cassettes, the **CrO_2** tape type indicator lights up and the recorded sound may be distorted.

MAKING OPTIMUM CASSETTE RECORDINGS

TYPE AND BRAND OF TAPES TO USE

In cassette recording, the type and brand of cassette you use has a great influence on the quality of your recordings. Therefore, it is advantageous to purchase the highest quality cassette available. Chromium dioxide (CrO_2) and metal tapes generally provide better fidelity than normal ferric oxide tape.

We recommend the use of cassettes with a recording capacity of 90 minutes or less. In production, the performance of our cassette decks is tested using the following tapes:

Type of Tape	Ref. No.	Market Name
Normal	TDK AC224 (C-60)	TDK AD
Special/CrO_2	TDK AC513 (C-60)	TDK SA
Metal	TDK AC712 (C-60)	TDK MA
		TDK MAR

TO PROTEDT VALUABLE RECORDINGS

In the record mode, information previously recorded on the tape will automatically be erased. To prevent this from happening, use a small screwdriver to break out one or both safety tabs (see Figure 4 for side A). It is possible to restore the recording capability of either side of the cassette by covering the opening with cellophane tape (see Figure 5 for side A).

VARIABLE BIAS CONTROL

Usually, this control can be set to the center click position because it has been adjusted to provided the optimum bias at that position. However, strictly speaking, the value of the bias providing the flattest frequency characterintics varies slightly depending on the type and maker of the tape. Therefore, to obtain the maximum performance from each tape used.

Note:
The VARIABLE BIAS control has no effect during playback.

The bias characteristic is generally flat with metal tapes. As a result, the VARIABLE BIAS control allows adjustment only with the NORMAL or CrO_2 position, and the bias is constant with the METAL position regardless of the control knob position.

NOTES ON INSTALLATION

When the deck is installed on or near other audio equipment hum sometimes occurs. Position the equipment so that the hum ceases. Always install the unit horizontally.

This model incorporates a microprocessor with high performance. In case of any malfunction due to staticelectricity, etc., please turn off the **POWER** switch, and after 30 seconds turn it on again.

CARE AND MAINTENANCE

This section describes the care and maintenance tasks that must be performed to optimize the operation of your Marantz equipment.

CLEANING OF EQUIPMENT EXTERNAL SURFACES

The exterior finish of your SD-62 will last indefinitely with proper care and cleaning. Never use scouring pads, steel wool, scouring powders or harsh chemical agents (e.g., lye solution), alcohol, thinners, benzine, insecticide or other volatile substances as these will mar the finish of the equipment. Likewise, never use cloths containing chemical substances. If the equipment gets dirty, wipe the external surfaces with a soft, lint-free cloth.

If the equipment becomes heavily soiled:

- dilute some washing up liquid in water, in a ratio of one part detergent to six parts water
- dip a soft, lint free cloth in the solution and wring the cloth out until it is damp
- wipe the equipment with the damp cloth
- dry the equipment by wiping it with a dry cloth.

REPAIRS

Only the most competent and qualified service technicians should be allowed to service the equipment. The Marantz company and its factory-trained warranty station personnel have the knowledge and special facilities needed for repair and calibration of this precision equipment. After the warranty period has expired, repairs will be performed for a charge if the equipement can be returned to normal operation.

In the event of difficulty, refer to your dealer or write directly to the nearest location to you that is listed on the Marantz Authorised Service Station list. If writing, please include the model and serial number of the equipment together with a full description of what you think is abnormal about the equipment's behaviour.

TROUBLE SHOOTING

GENERAL MALFUNCTION

If the equipment malfunctions, this may be because an electrostatic discharge or mains interference has corrupted the information in the equipment memory circuits. Therefore:

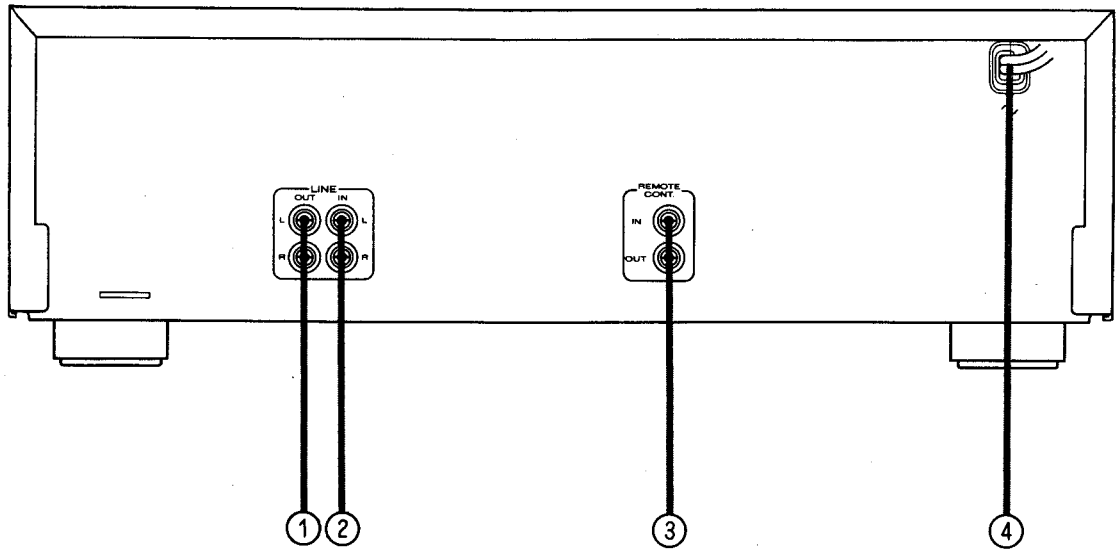
- disconnect the plug from the mains supply
- after waiting at least three minutes, reconnect the plug to the mains supply
- re-attempt to operate the equipment

ENGLISH

Figure 1

① Line outputs
② Line inputs
③ Remote control terminals
④ AC power source connection
⑤ Power switch
⑥ Timer/Sync. Rec switch
⑦ Eject button
⑧ Cassette compartment
⑨ Counter operation buttons
⑩ Display
- Ⓐ REC indicator
- Ⓑ REC Level/Operation mode display
- Ⓒ Tape/source indicators
- Ⓓ HX PRO indicator
- Ⓔ Dolby B NR/Dolby C NR indicator
- Ⓕ MPX-F indicator
- Ⓖ Tape type indicators
- Ⓗ Peak level meters
- Ⓘ Blank skip indicator
- Ⓙ Memo indicator
- Ⓚ Counter/Time display

⑪ Main operation buttons
⑫ MPX filter switch
⑬ Dolby NR switches
⑭ Record level control
⑮ Source/Tape switch
⑯ Record balance control
⑰ Bias control
⑱ Blank skip button
⑲ AMS (AUTO MUSIC SCAN) button
⑳ QMS (QUICK MUSIC SEARCH) button
㉑ M (memory) call button
㉒ Phones level control
㉓ Phones jack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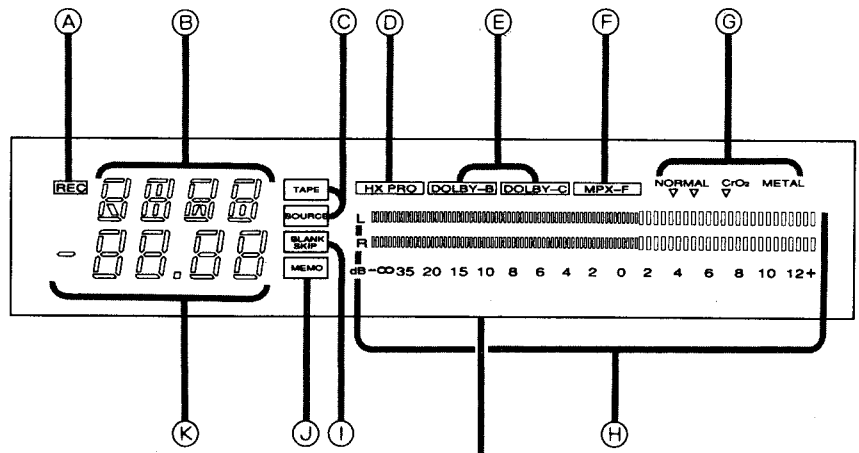
A
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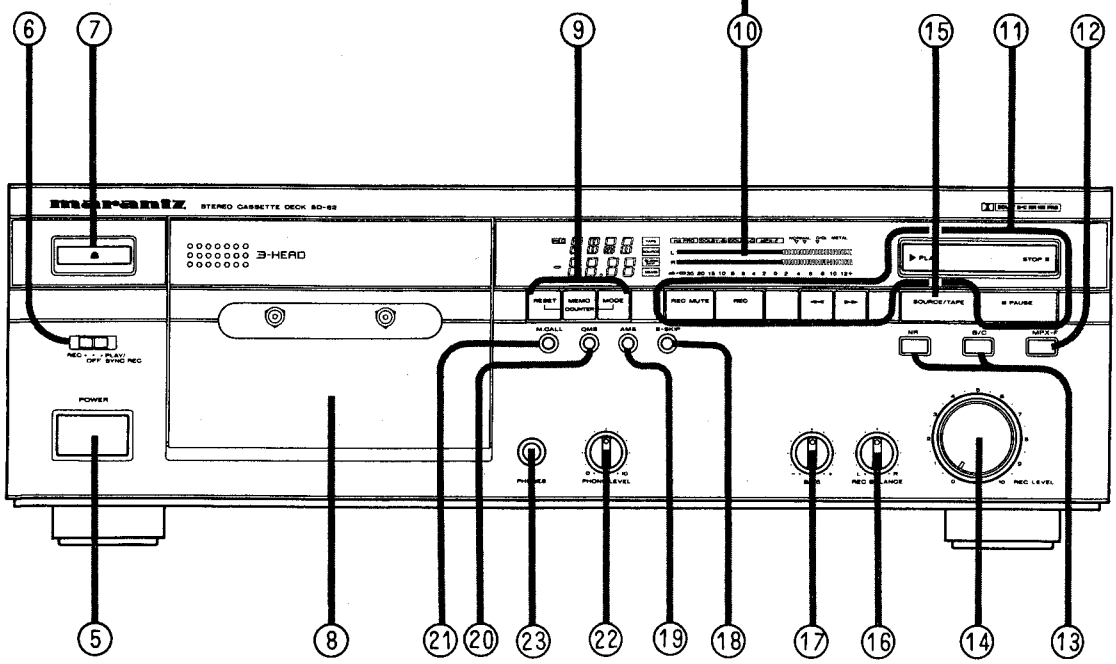
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marantz
STEREO CASSETTE DECK SD-62
3-HEAD
RESET
MEMO COUNTER
MODE
REC MUTE
REC
SOURCE/TAPE
M.CALL
CMS
AMS
B-SKIP
NR
B/C
MPX-F
POWER
PHONES
PHONES LEVEL
REC BALANCE
REC LEVEL
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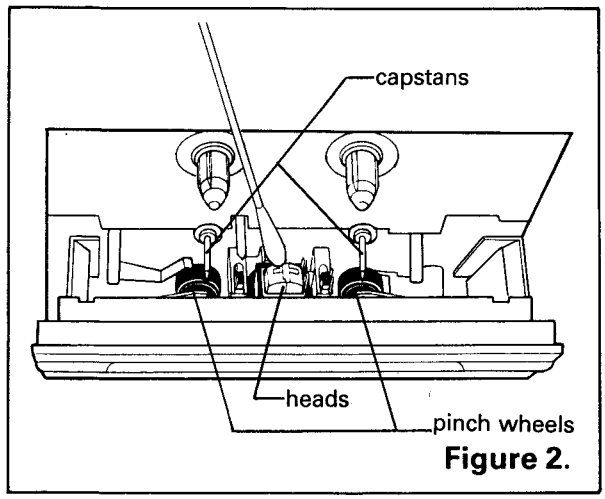


Figure 2.

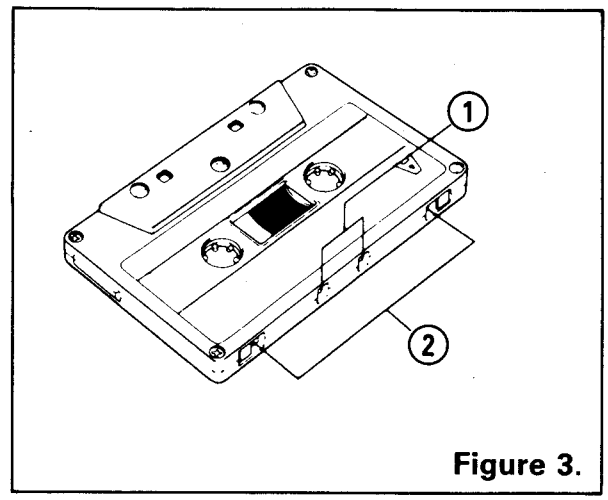


Figure 3.

ENGLISH

Figure 3

(1) Metal tape detection hole

(2) CrO_2 tape detection hole

FRANÇAIS

Figure 3

(1) Trou de détection de bande métal

(2) Trou de détection de bande CrO_2

DEUTSCH

Bild 3

(1) Metallband-Erkennungsöffnungen

(2) Chromband-Erkennungsöffnungen

NEDERLANDS

Figuur 3

(1) Detectiegat voor metaalband

(2) Detectiegat voor CrO_2 band

ITALIANO

Figura 3

(1) Foro identificazione nastri metal

(2) Foro identificazione nastri al cromo

PORTUGUÊS

Figura 3

(1) Orifício de detecção de fita metálica

(2) Orifício de detecção de fita cromo

SVENSKA

Figur 3

(1) Sensorhål för metallband

(2) Sensorhål för dromband

ESPAÑOL

Figura 3

(1) Agujero de detección de cinta metálica

(2) Agujero de detección de cinta de CrO_2

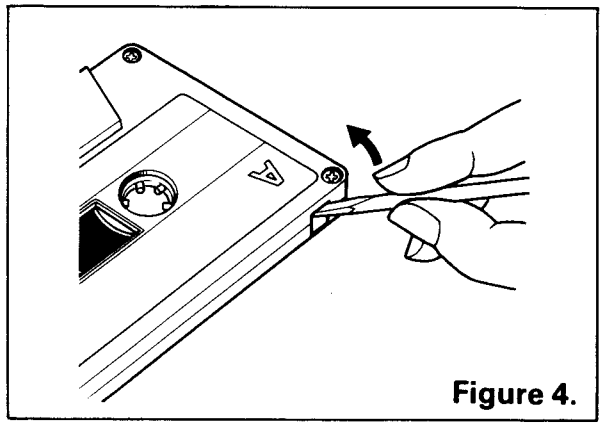


Figure 4.

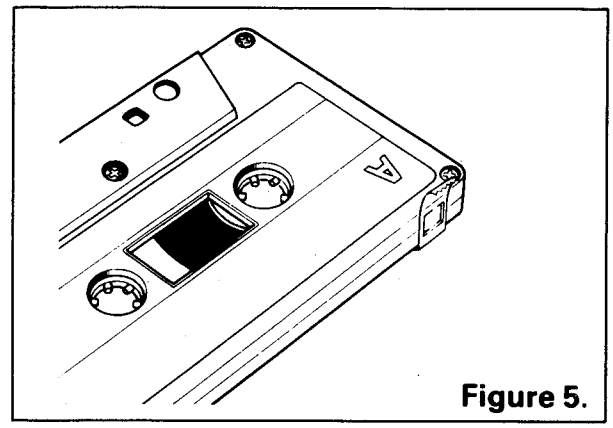


Figure 5.

	D-BUS CODE		D-BUS CODE
PLAY	1853	PREVIOUS	1833
FF	1852	1	1801
REW	1850	2	1802
PAUSE	1848	3	1803
STOP	1854	4	1804
REC	1855	5	1805
REC MUTE	1842	6	1806
AMS	1843	7	1807
COUNTER MODE	1815	8	1808
COUNTER MEMO	1841	9	1809
NEXT	1832	0	1800

Figure 6.

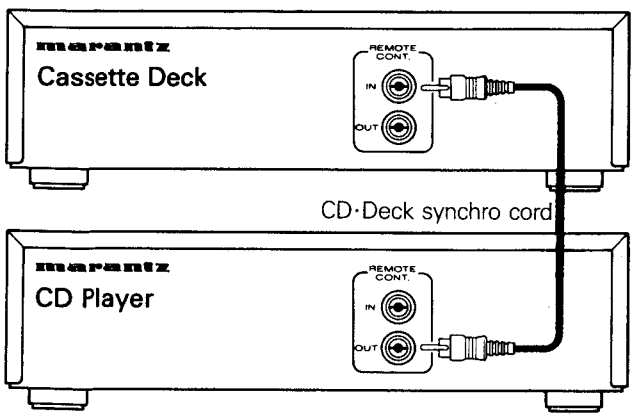
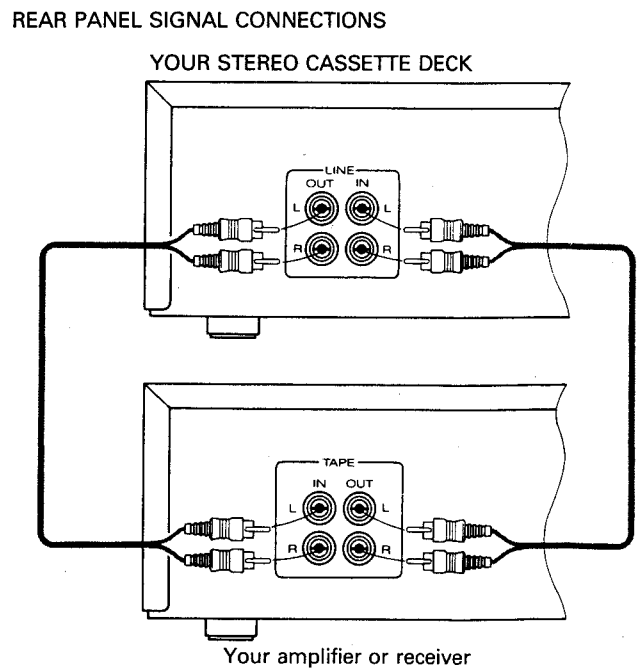


Figure 7.



D-BUS remote connection

It is possible to connect with the RCA pin cord.

Connexion pour télécommande D-BUS

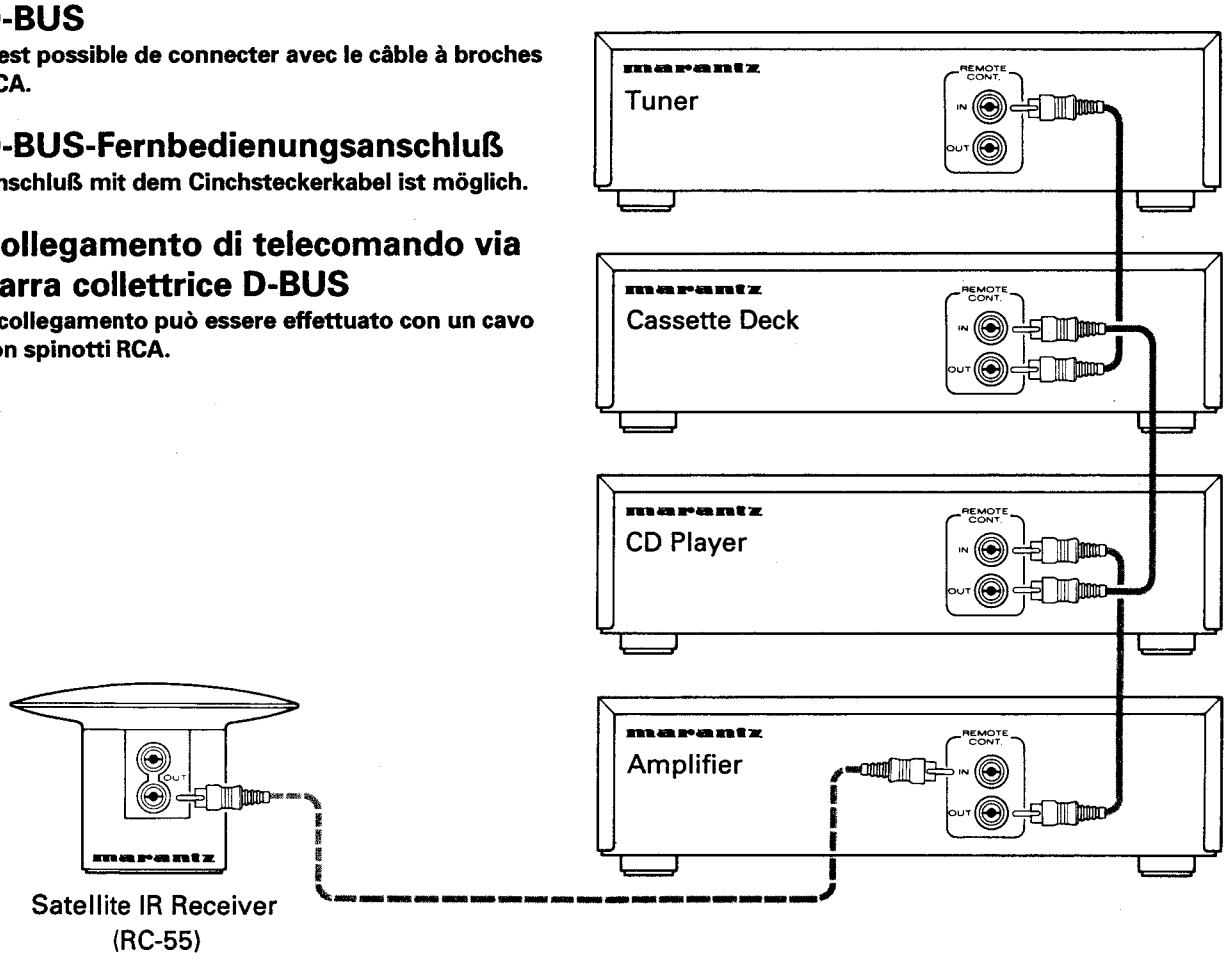
Il est possible de connecter avec le câble à broches RCA.

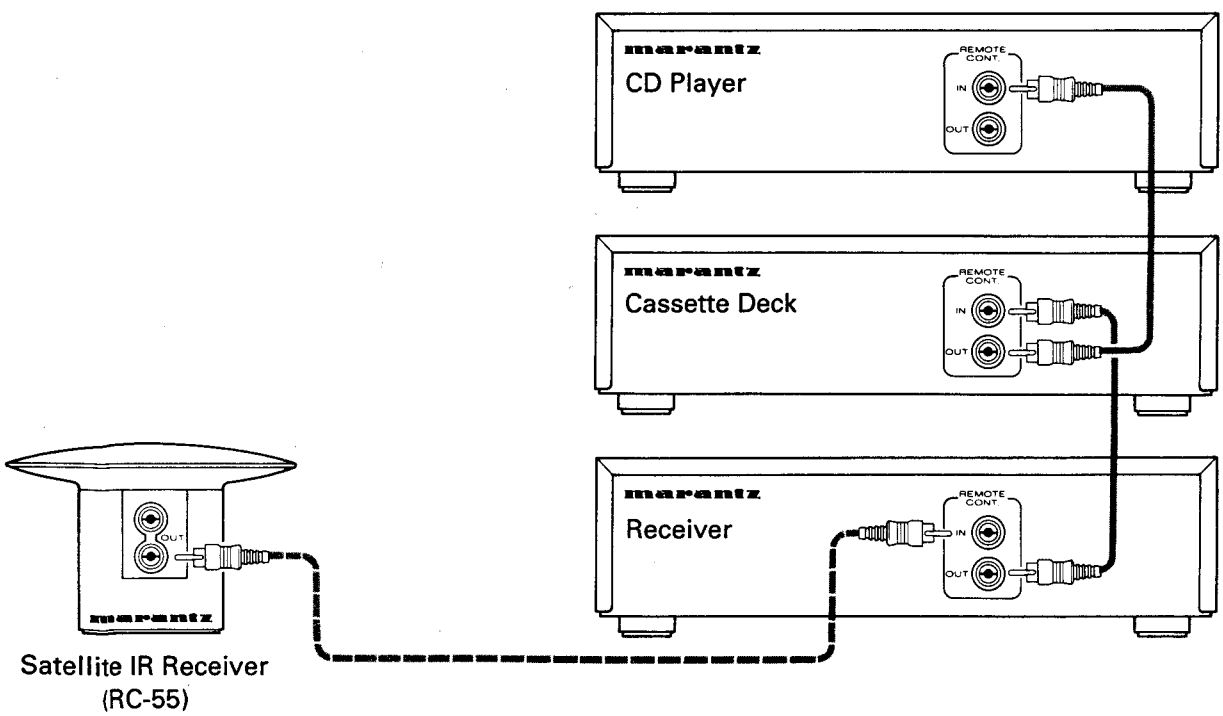
D-BUS-Fernbedienungsanschluß

Anschluß mit dem Cinchsteckerkabel ist möglich.

Collegamento di telecomando via barra collettrice D-BUS

Il collegamento può essere effettuato con un cavo con spinotti RCA.





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Oour "Zastupstiva Repromaterijala"
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